

Title (en)

Process for the continuous thickening of suspensions.

Title (de)

Verfahren zur kontinuierlichen Eindickung von Suspensionen.

Title (fr)

Procédé d'épaississement continu de suspensions.

Publication

EP 0064795 A1 19821117 (DE)

Application

EP 82200548 A 19820506

Priority

CH 305281 A 19810512

Abstract (en)

1. Process for the continuous thickening of liquid/solid suspensions in a filter-concentrator with plug-shaped vertically suspended filter elements (23), which are removably fixed on individual collector tubes (15) in a cylindrical container (1) where the liquid passes through the filter elements (23) from the outside to the inside, the solids are deposited on the external surface of the plug-shaped filter elements and are removed by flushing back opposite to the direction of filtration, wherein to remove the filter cake without interrupting the filtration, a single collecting tube (15) is disconnected by a quickly shutting valve (10, 10', 10'') freeing the filter elements (23) of the corresponding collector tube (15) of solids through pressure surge by way of a flushing back agent through a quickly opening valve (11, 11', 11'').

Abstract (de)

In einem Verfahren zur kontinuierlichen Eindickung von Suspensionen in einem Filtereindicker mit kerzenförmigen Filterelementen (23), die an einzelnen herausnehmbaren Sammelrohren (15) befestigt sind, werden ohne Unterbrechung der eigentlichen Filtration einzelne Sammelrohre (15) in bestimmten Intervallen mittels schnellschliessender Ventile (10) ausgeschaltet und mittels Druckluft über eine Rohrleitung (28) und Ventile (11) rückgespült. Durch den Druckstoss werden die Filterelemente (23) von den Feststoffen befreit, welche zu Boden sinken und periodisch über den Austrittstutzen entfernt werden. Auf diese Weise kann, ohne Unterbrechung der Filtration, die Filterkapazität konstant gehalten werden.

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IPC 8 full level

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Citation (search report)

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